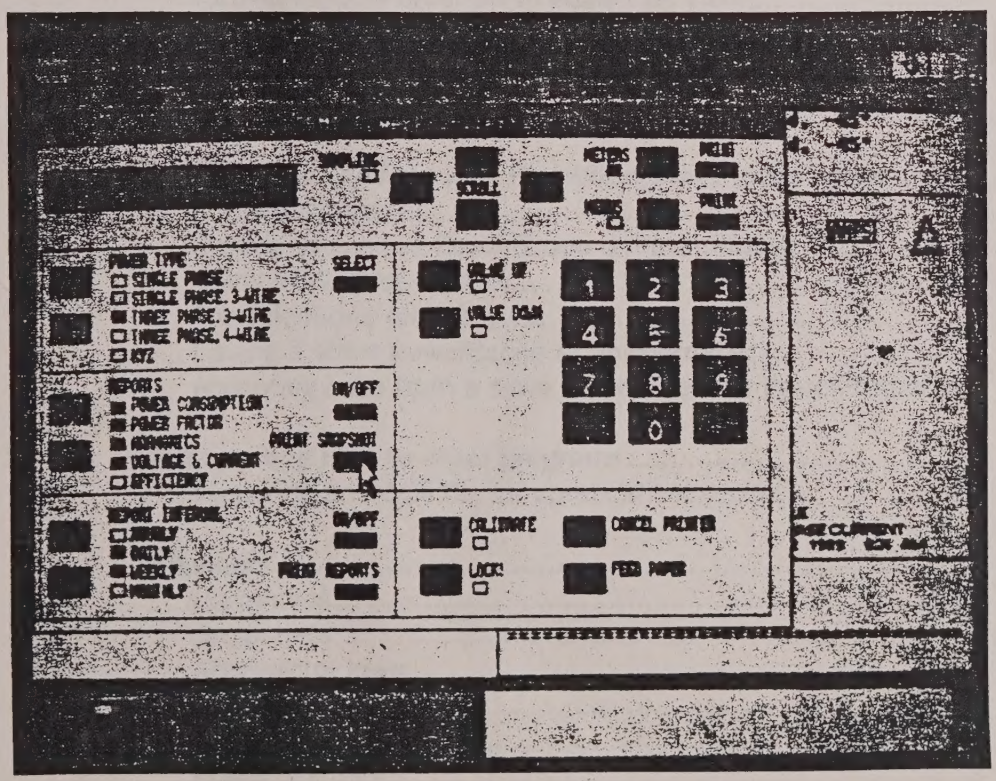
G-010 PowerTalk™ User's Guide

BMI

Version 3.0



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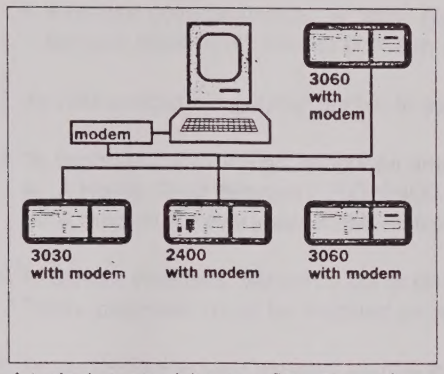


A typical master/slave configuration using PowerTalk and BMI PowerScopes and PowerProfilers

PowerTalk lets you control one or more BMI PowerScopes or PowerProfilers using an IBM-PC AT (or 286/386 compatible). Graphs and text from these BMI instruments can be stored on disk in your computer or in BMI's 2460 PowerScope, 3060 PowerProfiler, or A-600 Parallel Processor. Graphs can be viewed using side-by-side windows, and can be cut and pasted into a word-processed report.

BMI's PowerTalk™ runs under the Microsoft Windows® program and makes extensive use of Microsoft Write®. You should be thoroughly familiar with these programs before you try to use PowerTalk. PowerTalk can also be run using other word-processing programs within Windows.

1. Installing PowerTalk

Contents of this kit

The contents of this kit are required to run PowerTalk software. Please check that you have:

1. Two PowerTalk program diskettes, one 3-1/2 and one 5-1/4 inch format. The contents of each disk are identical.
2. The PowerTalk User's Guide (this manual).
3. One serial interface cable for RS-232 connections.
4. One null modem adapter.

Kit contents

Equipment required

Minimum requirements to run PowerTalk:

1. An IBM-PC AT computer, configured as follows:
   - a minimum of 640k of memory; 2MB is strongly recommended
   - a hard disk, at least 20 MB or larger is recommended for report storage
   - an EGA graphics adapter (the monitor may be color or black and white).

1. Installing PowerTalk

- a mouse pointing device. A "bus" type is recommended. If a serial mouse is used, be sure there is no conflict between the mouse and the PowerTalk serial channel.

2. An IBM-compatible graphic printer (if you want printed copies of data).

3. To communicate through telephone lines:
   a. A Hayes SmartModem 1200/2400 for the PC.
   b. A modem for every slave BMI instrument you will be connecting to.

4. Microsoft Windows, version 2.03 or later, Windows 286 or 386 and Microsoft Write. These programs must be installed on your computer and must be in the search path.

5. PowerScopes in your network require Revision D firmware or later (Push SELF TEST button to check). Older PowerScopes can be upgraded. Call BMI Customer Service for assistance, (800) 888-2648. PowerProfilers require Revision A2.1 or later.

Installation setup screen

Installing PowerTalk

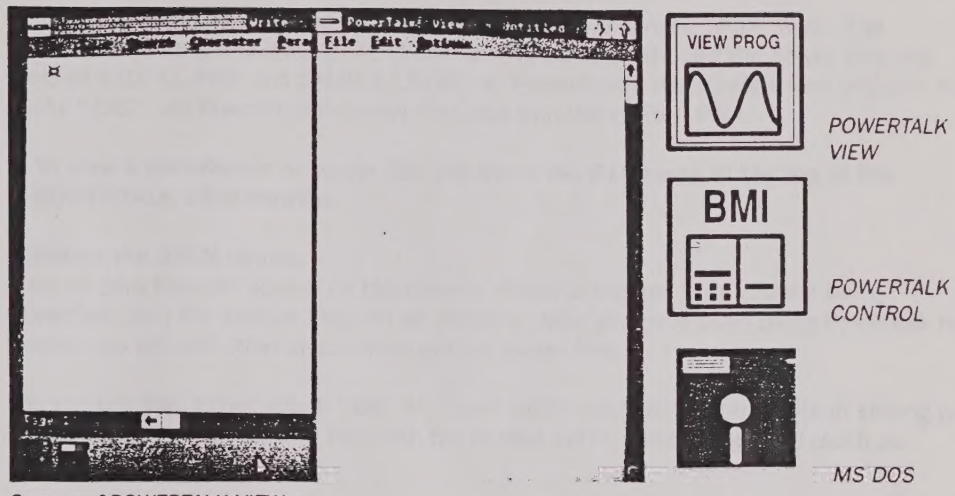
Before you begin, it is advisable to make a backup copy of the disk you will be using. PowerTalk program disks are not copy protected.

IMPORTANT: PowerTalk will install its own WIN.INI file because it needs certain lines entered in order to function (see Appendix for a full printout of this file). You can either save your WINI.INI file as WINI.BAK and install the PowerTalk WINI.INI into the WIndows directory, or install the PowerTalkWINI.INI in its own directory.

To install PowerTalk software:

1. **Make a backup copy of the PowerTalk disk.**
2. **Place the PowerTalk software disk in any drive.**
3. **Attach to this drive. Type A:<Enter> or B:<Enter>.**
4. **Type SETUP<Enter>. You will be prompted with further instructions.**

Note: The installation procedure automatically sets up a standard baud rate and dialing mode for BMICONTRL. You can change your selections at any time by running the program BMICONFG.EXE found in your BMI directory.



Screen of POWERTALK VIEW menu

2. Viewing disturbance and/or power files

You are now ready to start using PowerTalk software. You may view disturbance and/or power files even before you make connections to a PowerScope or PowerProfiler. You can view 2 files at the same time, and they can be either PowerScope and/or PowerProfiler files.

Reviewing and editing files

If PowerTalk is installed in the Windows directory,

1. To start PowerTalk type BMI <ENTER>.

If PowerTalk is installed in its own directory,

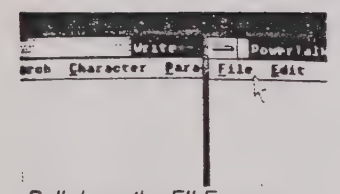
1. Attach to the directory PowerTalk is in.
Type BMI <ENTER>.

The screen above will appear. The POWERTALK VIEW display will appear on the RIGHT side of your screen, and the Microsoft Write display will appear on the LEFT and behind POWERTALK VIEW.

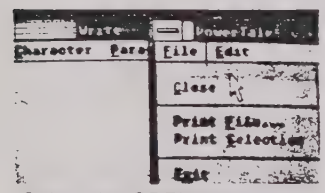
At the bottom of the screen several icons will appear. The icons are:
POWERTALK CONTROL - a keypad icon.
The MS DOS Executive file - a floppy disk icon.

When you typed **BMI**, two programs were started. The first, on the RIGHT, is the POWERTALK VIEW program. At the top of the right screen you will see three pull-down menus, the FILE, EDIT, and OPTIONS menu. The second window contains the Microsoft Write program and its menus.

2. Viewing disturbance files



Pull down the FILE menu



Select the OPEN option

Your disk includes two sample disturbance files and two sample power files. The disturbance files are entitled SAMPLE.DIS and SAMPLE1.DIS, and the power files are entitled SAMPLE.PWR and SAMPLE1.PWR. All PowerScope disturbance files end with the suffix ".DIS". All PowerProfiler power files end with the suffix ".PWR".

2. To view a disturbance or power file, pull down the FILE menu at the top of the POWERTALK VIEW window.

3. Select the OPEN option.
A list of data files will appear on the screen. If this is the first time you are using PowerTalk, only the sample files will be present. After you have been using PowerTalk for a while you will add other disturbance and/or power files.

You will see files either with a ".dis" or ".pwr" suffix depending on the default setting you have specified at setup. Only files with the default suffix will be displayed (such as sample.dis).

4. To access the default file type click once on the file name.

To change the default type, change the suffix (either from .dis to .pwr, or from .pwr to .dis). Then click once on the file name.

5. Click on the OPEN box.
The selected disturbance or power file will appear in the right window on the screen. The POWERTALK VIEW program behaves exactly like the Microsoft Write program. Use the scroll bar to scroll through the data. Use the mouse to select graphs or text. Pull down the Edit menu to copy graphs or text to the clipboard, or to save a graph as a TIFF file to be read by various word processors or drawing programs.

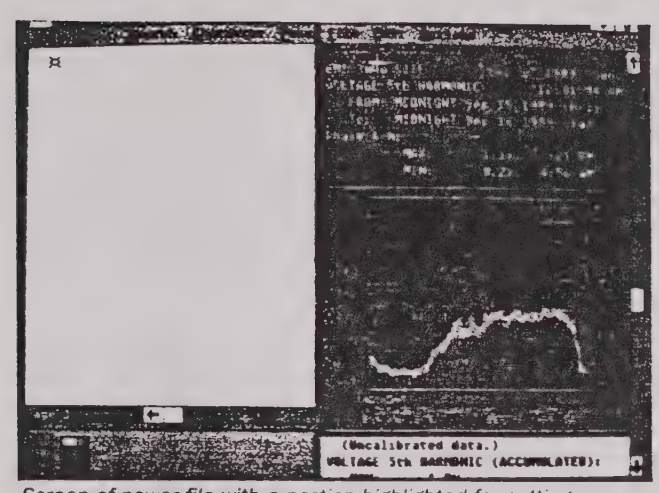
You may open a second copy of POWERTALK VIEW. You will then have three windows open (two disturbance and/or power files and one Write file), and you can scroll in any of them. See your Windows manual for additional instructions.

Turning reports on or off in PowerTalk View

The FILTERS menu allows you to select which disturbance or power reports you would like to view. Lists of check boxes show which reports are on or off. An "X" in the box indicates that a report is ON; no "X" means the report is OFF.

Entire sections of reports may be toggled on or off by clicking the ON and OFF buttons within each group box.

Upon startup of PowerTalk View, all reports will always be on. Report selection will be in effect for any file opened after using these options for the current VIEW session.



Screen of power file with a portion highlighted for cutting, pasting, copying, or printing

Copying disturbance or power graphs into word-processed reports

With BMI VIEW and Microsoft Write on the screen, you can scroll through the data file, highlight portions that you wish to copy, and paste them into the Write file. You can copy text or graphs, and you can add your own comments to the Write file without leaving Windows. This is how you edit and write reports of your findings.

To copy files into Microsoft Write:

1. **Highlight the selection you wish to copy.**
2. **Choose COPY from the EDIT menu.**
3. **Choose PASTE in the Write EDIT menu.**

Copying disturbance or power graphs into other programs

If you wish, you may save a single graph to a TIFF (Tag Image File Format) file, either compressed or uncompressed, for use in various word processors and other software supporting TIFF. Since products vary as to the type of compression they
TIFF files, PowerTalk gives you the option of saving a graph uncompressed or compressed using CCITT/3 data compression.

To save a graph to a TIFF file:

1. **Highlight an area for selection.**
   Only the first graph of the highlighted area will be saved to the TIFF file.
2. **Choose COPY TO TIFF from the EDIT menu.**
3. **Select either COMPRESSED or UNCOMPRESSED.**
4. **Select or enter a file name.**
5. **Click the OK button.**
   The graph will be saved with the corresponding name.

You will need to decide, based on the software you use, which type of TIFF files to create. For example, Microsoft Word 5.0© reads the uncompressed file, while Wordperfect 5.0© reads the compressed file (Sample Microsoft Word 5.0 and WordPerfect 5.0 files containing a graph can be found in the files BMIMS50.DOC and BMIWP5.0.DOC, respectively, on your PowerTalk diskette.) You must remember that many word processors that import graphics do so by grabbing a copy of a graphics file at print time. This means that if you make a reference to a graphics file, that file must exist for it to appear in the document.

Printing files

You can print using the POWERTALK VIEW program on most Windows-supported printers. For the POWERTALK VIEW program the FILE menu options are OPEN, CLOSE, PRINT FILE, PRINT SELECTION, and CHANGE PRINTER.

To print an entire file:

1. **Choose PRINT FILE from the FILE menu.**
2. **Select PRINT FILE.**

To print selections from a file:

1. **Highlight the selection you wish to print with the mouse.**
   You may select more than one disturbance, power, or text report by pressing and holding the left mouse button and then dragging the mouse arrow down through your selection.
2. **Choose PRINT SELECTION in the FILE menu.**

To change your printer:

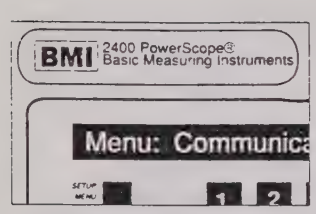
1. **Choose CHANGE PRINTER from the FILE menu.**
   A list of printers known to your Windows session will appear.
2. **Select the printer you wish to use and click the OK button.**
   Refer to your Windows manual for information about adding printers.

3. Calling and setting up a PowerScope or PowerProfiler

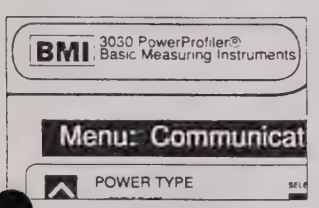
PowerTalk software lets you control one or more PowerScopes or PowerProfilers remotely using a modem and an RJ-11 cable, or one PowerScope or PowerProfiler locally through an RS-232 cable. If you're using the RS-232 cable, it must be connected prior to calling the PowerScope or PowerProfiler from your computer. Also, it may be necessary to attach the provided null modem to one end of your RS-232 cable (either end) to establish proper communication. If you are getting no response at all from your instrument, install the null modem.

Connecting cables

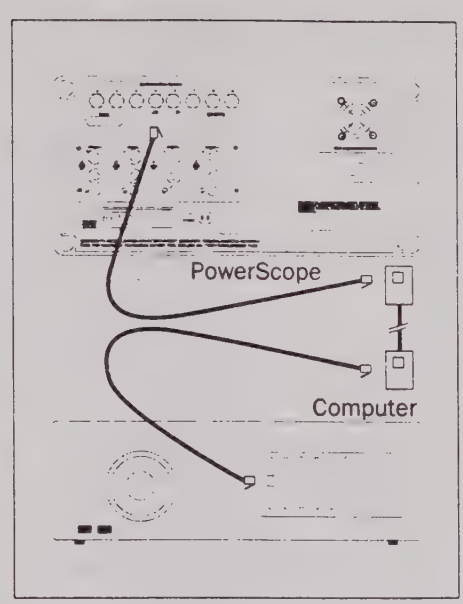
If you are using modems to communicate, you will be aware that modems may be internal or external to the equipment at each end of the telephone line. This obviously will affect



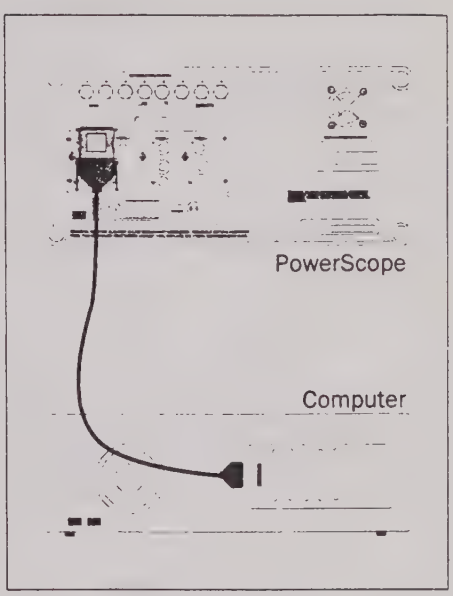
Use the PowerScope COMMUNICATION Menu to create a slave unit.



e the PowerProfiler MMUNICATION Menu to create a slave unit.



Cable connections for internal modems, RJ-11 format on a PowerScope



Cable connections for RS-232 format on a PowerScope

the physical appearance of the connections you are making. If either of your modems are external, then plug the RJ-11 connector into the back of the modem, rather than into the back of the equipment.

Make your wiring connections now.

Setting up a slave PowerScope or PowerProfiler

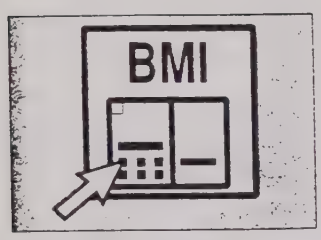
Before establishing control from your terminal, each PowerScope or PowerProfiler in your network must be programmed as a slave unit. Do this when you place the unit in the field. To create a slave unit, follow directions in your User's Guide. Briefly, the steps are:

1. **For a PowerScope, select the KEY OPERATOR menu by pressing the SETUP MENU key quickly followed by the UP ARROW key.**
   For a PowerProfiler, press the MENUS key.

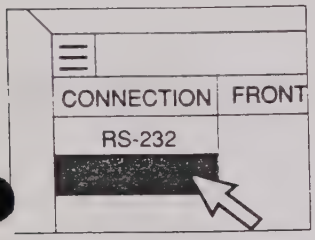
2. **Press the VALUE DOWN key to enter the COMMUNICATION menu.**

3. **Answer the questions in the COMMUNICATION menu, selecting the options for a slave unit.**
   If you are using a modem, you will need to enter the telephone number of your computer if you want to have the PowerScope or PowerProfiler call your computer.

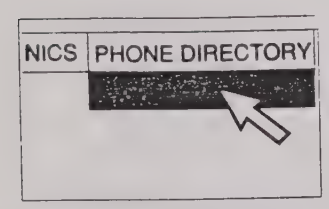
3. Calling and setting up a PowerScope or PowerProfiler



Select the PowerScope CONTROL icon



To select RS-232 or modem, click on your selection



Adding names to the PHONE DIRECTORY

4. You may want to save paper by turning off the PowerScope or PowerProfiler printer since data will be stored on your computer disk.

If an A-600 Parallel Processor is connected to a slave unit, there are two different print options available: storage printer and slave printer. The table below shows options for storage and printing.

	SAVED ON A-600 DISK	SENT TO SLAVE PRINTER	SENT TO POWERTALK
SLAVE ON, STORAGE ON	YES	YES	YES
SLAVE OFF, STORAGE ON	YES	NO	YES
SLAVE ON, STORAGE OFF	YES	NO	NO
SLAVE OFF, STORAGE OFF*	YES	NO	NO

**not recommended*

The PowerScope or PowerProfiler menus do not need to be programmed in the field, since the front panel will appear on the computer screen when you call. Remember, the field instruments must be set up as slave units with the communications port set properly.

Using RS-232 or modem

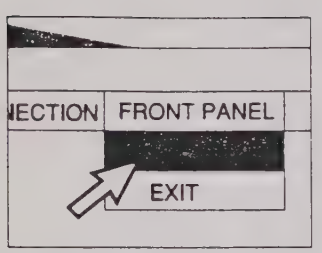
To select RS-232 or Modem:

1. **If your program is not already running, turn the computer on and start PowerTalk. This will start the POWERTALK VIEW program and the Write program.**
2. **Select the PowerTalk CONTROL icon.**
3. **Pull down the CONNECTION menu. The current connection type will appear with a check mark.**
4. **To change the type of connection, simply click on the new selection. Be sure to change wiring connections accordingly.**

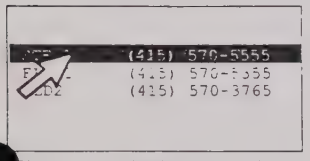
The telephone directory

If you are using a modem, you MUST set up your telephone directory.

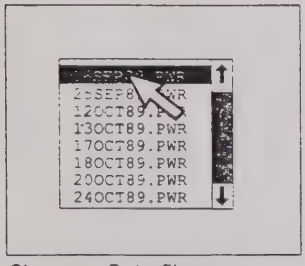
1. **Start the PowerTalk program, and call up the PowerTalk CONTROL program as indicated above.**
2. **Pull down the PHONE DIRECTORY menu and select the OPEN option.**
3. **Position the cursor in the Name box. Type in a new name and telephone number. Use a comma for a 2 second pause. Use the ADD, CHANGE, DELETE, and OK options as needed. You may enter as many as 20 names in the directory.**



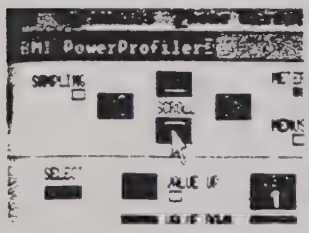
Select ENTER from FRONT PANEL menu



Choose a telephone number



Choose a Data file name



Use the mouse to program the PowerScope or PowerProfiler on your screen

4. **To select a telephone directory listing, click on the name.**
   The selected listing will appear in the header box.

5. **To exit, choose OK. If changes have been made, you will be prompted to save changes or not.**

Calling a slave PowerScope or PowerProfiler

To set up a PowerScope or PowerProfiler from your computer:

1. **Start the PowerTalk program. Type BMI <Enter>.**
2. **Enter the POWERTALK CONTROL program by double clicking the BMI icon.**
3. **Pull down the FRONT PANEL menu. Select the ENTER option.**
4. **If you are using a modem, the PHONE DIRECTORY dialog box will appear. Click on a PowerScope or PowerProfiler; it will appear in the header box. Click on the OK box.**
6. **The Data File dialog box will appear.**
7. **Choose a name for the file in which data from your PowerScope or PowerProfiler will be stored.**
   All PowerScope display data files must end with the suffix ".DIS". All PowerProfiler files must end with the suffix "PWR". You may click on None if you just want data on your screen.

   The RS-232 default file name for the PowerScope is BMIDATA.DIS, and for the PowerProfiler it's BMIDATA.PWR, but you should select another name so that subsequent files will not write over this file.

8. **Click on OK.**
   Once you have selected a file name, the program will place a call to the PowerScope or PowerProfiler, and your screen will show the front panel.

9. **With the PowerScope or PowerProfiler front panel displayed, use the mouse to push the buttons on the panel, just as you would in the field.**
   The PowerScope or PowerProfiler must have been set up in the field as a slave unit before receiving calls from your computer.

   When you are ready for more rapid, advanced features, see the Accelerator Keys, page 12.

10. **Set up the PowerScope or PowerProfiler from your screen.**

11. **If connected to a PowerScope, click on the MONITOR key.**
    The front panel is locked when first connected. During setup, be sure the PowerScope or PowerProfiler has your computer's telephone number in its directory, and that your computer is designated as the PowerScope or PowerProfiler's Master.

You may now leave the PowerScope or PowerProfiler to monitor; disturbance or power graphs and reports will be sent automatically to your computer.

Accepting calls from slave PowerScope or PowerProfilers

The previous section described how to set up a slave PowerScope or PowerProfiler. Now we want to prepare the computer to receive calls from one or more slave PowerScopes or PowerProfilers.

If your computer is going to receive calls from more than one PowerScope or PowerProfiler, you must assign different names to them in the telephone directory, and likewise, different disturbance or power file names.

To accept calls from a slave PowerScope or PowerProfiler:

1. **If you have not already done so, set up each of your units as a slave unit. Call each PowerScope or PowerProfiler and prepare it to monitor.**
   Be sure that each slave PowerScope or PowerProfiler reports to a differently named disturbance or power file.

2. **Open the PHONE DIRECTORY.**

3. **Check that each slave unit has a correct name, telephone number, disturbance or power file name, and a "CAL ID" number.**
   The CAL ID number refers to the calibration module identification on the PowerScope or PowerProfiler and is entered automatically when you call the slave unit.

4. **Return to the PowerScope or PowerProfiler CONTROL program.**
   In order to receive calls, the CONTROL program MUST either be active on the screen or iconic.

4. Exporting Files to Other Programs

Preparing an ASCII file for spreadsheet reports

The BMIEXP.EXE program included on your PowerTalk diskette enables you to import data from a disturbance or power file into a spreadsheet program such as Lotus 1,2,3®. It does this by creating an ASCII file which may be imported by the spreadsheet application you are using. BMIEXP does not run under Windows. It is a DOS utility.

To create a spreadsheet ready file:

1. **From your DOS prompt type BMIEXP.**
2. **Using the function keys select a file to export.**
3. **Select a source file if the default is not acceptable.**
4. **Press the F5 key to begin the export process.**

Data is extracted from the text portions of disturbance files and power files into an ASCII file containing one record for each disturbance or report. Fields are delimited with commas and quotation marks.

Appendix

Harmonics

Harmonic analysis can be performed only when you have a BMI 2460 PowerScope or an A-600 Parallel Processor connected to a PowerScope. With the Parallel Processor connected to the PowerScope, PowerTalk software lets you select harmonic analysis at regular intervals.

Harmonic analysis is accomplished by selecting the HARMONICS menu of the POWERTALK CONTROL program.

To sample harmonics:
1. Pull down the HARMONICS menu
2. You will be prompted for a sampling interval (how often you want the analysis performed).
You may select an interval from 6 minutes (.1 hours) to 24 hours.

To select a one-time harmonic analysis:
1. Call up the POWERTALK CONTROL program
2. Use the mouse to press the STATUS key quickly followed by the up arrow.
Selecting harmonics when the PowerScope does not have a Parallel Processor attached will produce a message alerting the user that there is no harmonic package supported.

Snapshots

BMI PowerProfiler snapshots can be generated periodically and recorded on a host PC using PowerTalk software.

To generate PowerProfiler reports:
1. **Pull down the SNAPSHOTS menu**
2. **You will be prompted for a report interval (how often you want the snapshots generated).**

Appendix

Error messages

Error messages, in alphabetical order are:

A GRAPHIC PRINTER IS REQUIRED.
DATA READ ERROR. Disk media error.
EMPTY DIRECTORY.
INVALID FILE NAME.
INVALID TELE DIRECTORY NUMBER.
LINE BUSY AT ...(Number called.)
LOST CONNECTION FROM POWERSCOPE.
MODEM FAILURE.
NO ANSWER FROM ... (Number called.)
NO DIAL TONE PRESENT - CHECK LINE.
NO MODEM IS INSTALLED IN THE SYSTEM.
NO POWERSCOPE CONNECTED AT ...(Number called.)
NO PRINTER ASSIGNED.
NO PRINTER INSTALLED.
NO RESPONSE FROM POWERSCOPE.
POWERSCOPE IS SET AS A MASTER, NOT A SLAVE.
PRINTING CANCELLED.
PRINTING ERROR - PRINT ABORTED.
THIS NAME ALREADY EXISTS IN THE TELE DIRECTORY.
UNABLE TO CREATE TEMPORARY FILE
UNABLE TO WRITE TO EXPORT FILE
UNABLE TO WRITE TIFF FILE

If you require assistance in recovering from any error, call BMI Customer Service: (800) 888-2648.

Accelerator keys

The Accelerator Keys are designed to let you use the computer keyboard instead of the mouse for certain program functions. Some people may find it faster or more convenient to use the keyboard than the mouse. The Accelerator Key functions are listed below.

The Microsoft Write program also has a number of function keys similar to BMI's PowerTalk Accelerator Keys. There are no conflicts in functions keys between the two programs. Please refer to the Microsoft Write manual for the function keys to that program.

POWERTALK CONTROL Program

4800/2400/2460

Scroll function	- Arrow keys	Setup	s	Recall	e
Value Up	- PgUp	Report	r	Feed paper	f
Value Down	- PgDn	Status	a	Cancel Printer	p
Default	- d	Test	t		
0-9	- 0-9 numeric	Monitor	m		
Clear	- Del	Calibrate	c		
		Store Memory	w		

3030/3060

Scroll function	Arrow keys	Meters	m	Reports up	t
Value Up	PgUp	Meters print	,	Reports down	g
Value down	PgDn	Menus	u	Reports on/off	y
0-9	0-9 numeric	Menus print	i	Print snapshot	h
Clear	Del	Power type up	w	Report interval up	+
Calibrate	c	Power type down	g	Report interval down	-
Feed paper	f	Select	e	Report interval on/off	[
Cancel printer	p			Print reports	]

POWERTALK VIEW Program

FILE MENU		EDIT			
Open	^o (control-0)	Copy	^INS	Move to bottom of file	END
Close	^c	Copy to TIFF	^t	Move to top of file	HOME
Print file	^p	Scroll up	up arrow	Move to one report	PgUp
Print selection	^s	Scroll down	down arrow	Move down one report	PgDw

PowerTalk Files
The PowerTalk kit contains two disks, one 3-1/2 inch and one 5-1/4 inch high density floppy disk. Each disk contains identical files. These files are:

SETUP.EXE
WIN.INI
BMI.BAT
BMICNTRL.EXE
BMICONFG.EXE
BMIVIEW.EXE
BMIFONT.FON
BMITELE.IDX
SAMPLE.DIS
SAMPLE1.DIS
BMIDRIVE.SYS
README.DOC
BMIMS50.DOC
BMIWP50.DOC
BMICP.TIF
BMINOCP.TIF
BMIALTB.WPM
BMIGRPH.MAC
SAMPLE.PWR
SAMPLE1.PWR
BMIEXP.EXE

The kit also contains a standard RS-232 cable and null modem adaptor.

Shipping weight: 16 oz. (458 grams).

NOTES ON WIN.INI

Printer
The WIN.INI file that is furnished with PowerTalk does not have a printer installed for Windows. In order to print from either the POWERTALK VIEW or the Write program, you will have to install a printer. Refer to your Windows manual for printer installation instructions.

Fonts
The WIN.INI file that is furnished with PowerTalk has been optimized to load quickly with the best fonts selected for the POWERTALK VIEW program when used with a NEC multisync Monitor and an EGA display card. If your display setup is different, you may get better results with a different default font. The first font in the list of fonts in the [fonts] section (COURC) is the default font. If your installation of Windows did not copy this font to your Windows directory, you should copy it from the Windows fonts disk:
1. Place the Windows Fonts disk in Drive A:
2. Type COPY A: *.FON \WINDOWS

The WIN.INI file that is furnished with PowerTalk has been edited to automatically start the BMIVIEW and Microsoft Write programs when Windows is started, and to load the BMICNTRL program and a second copy of BMVIEW as icons. This is accomplished through the following two lines in the [windows] section of the WIN.INI file:

load=bmiview bmicntrl
run=write bmiview

A line has been added to the [extensions] section so that the POWERTALK VIEW program will be automatically invoked if a file with the ".dis" or ".pwr"extension is run from Windows.

dis=bmiview.exe^.dis
pwr=bmiview.exe^.pwr

A line has been added to the [fonts] section to load a special font that is used to display the front panel keys and the BMI logo at the bottom of disturbance graphs:

bmifont=BMIFONT (The "COURC" font must also be loaded.)

A [BMICNTRL] section is added to specify the connections that are specific to your hardware. This section describes the entries for the [BMICNTRL] section of a WIN.INI file.

Connection=[RS232/MODEM]	• Select with RS232 or MODEM default
Port=[Com1/Com2:]	• Select either COM1: or COM2:
Baudrate= [300/1200/2400]	• Select the modem baud rate
Dial=[Tone/Pulse]	• Select the dialing mode
RS232Baudrate=[300/1200/2400]	• Select the RS232 baud rate
File Type=[DIS/PWR]	• Select the default file type

A [BMIVIEW] section is added to select the default type for PowerTalk View.

File Type=[DIS/PWR]	• Select the default file type

Additionally, up to five modem control strings [Modem1 - Modem5] can be added to send specific commands to the modem after the modem has been reset. Each line must contain only text characters and will be sent to the modem without checking. An example of this type of line follows:

Modem1=ATSO=0L1S11=70

Refer to the "Customizing Your WIN.INI File" section of your Windows manual for further information on modifying your WIN.INI file.

Accessories

The BMI A-600 Parallel Processor works with BMI's PowerScope. It stores text reports and disturbance graphs on 3-1/2 inch floppy disks, and enables the PowerScope to print harmonic analysis of the power line (up to the 33rd harmonic at 60Hz.) Graphs and reports can be retrieved from the disk and printed by the PowerScope, a computer, or sent by modem to a remote location.

The A-600 Parallel Processor includes PowerTalk software, BMI's part number G-010, but PowerTalk software does not include the A-600 Parallel Processor.

Extra disks are available for the Parallel Processor or for 3-1/2 inch computer disk drives. Refer to BMI part number S-601. One box includes 10 disks.

To order accessories, call the BMI Sales Department at 1-800 876-5355, or TWX 910 374-3059, or FAX 415 574-2176.

BMI

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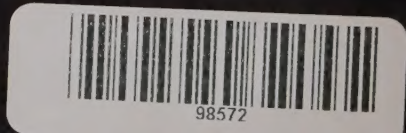
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